AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1-3. (Canceled)
- (Currently Amended) [[The]] <u>A machine-implemented</u> method, of elaim 1, further comprising:
 - <u>executing a first instance of a virtual console driver that is implemented by an</u> <u>operating system kernel instance;</u>
 - establishing a first device node within a first virtual operating system environment

 (VOSE) of a plurality of VOSEs controlled by the operating system kernel instance;
 - establishing an association between the first device node and the first instance of the virtual console driver;
 - in response to a first process' request to write to the first device node, determining
 with which instance of the virtual console driver the first device node is
 associated, wherein the first process executes in the first VOSE:
 - in response to determining that the first device node is associated with the first instance of the virtual console driver, sending, to the first instance of the virtual console driver, data received from the first process;
 - establishing a second device node within a global operating system environment

 (OSE) that comprises the plurality of VOSEs;

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establishing an association between the second device node and the first instance of the virtual console driver:

in response to a second process' request to read from the second device node,

determining with which instance of the virtual console driver the second

device node is associated, wherein the second process executes in the global

OSE: and

in response to determining that the second device node is associated with the first instance of the virtual console driver, sending, to the second process, the data that was received from the first process and sent to the first instance of the virtual console driver.

- (Currently Amended) The method of claim [[5]]4, wherein the second device node is not accessible by any processes executing in any VOSE of the plurality of VOSES.
- (Currently Amended) The method of claim [[5]]_4, further comprising:
 receiving, from the second process, a command to execute an instance of the virtual
 console driver;
 - wherein the step of executing the first instance of the virtual console driver is performed in response to receiving the command from the second process.
- (Currently Amended) The method of claim [[5]]_4, further comprising: receiving, from the second process, a command to establish the first device node within the first VOSE;
 - wherein the step of establishing the first device node within the first VOSE is performed in response to receiving the command from the second process.

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8. (Currently Amended) The method of claim [[1]] 4, further comprising:

executing a second instance of the virtual console driver, wherein the second instance
of the virtual console driver is separate from the first instance of the virtual
console driver:

establishing a second third device node within a second virtual operating system environment (VOSE) of the plurality of VOSEs, wherein the second VOSE is separate from the first VOSE;

establishing an association between the second third device node and the second instance of the virtual console driver:

in response to a second process' request to write to the second third device node,

determining with which instance of the virtual console driver the second third device node is associated, wherein the second process executes in the second VOSE: and

in response to determining that the second third device node is associated with the second instance of the virtual console driver, sending, to the second instance of the virtual console driver, data received from the second process.

9. (Currently Amended) The method of claim 8, wherein:

except for processes executing in the first VOSE, the first device node is not accessible by any processes executing in any VOSE of the plurality of VOSES; and

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except for processes executing in the second VOSE, the second third device node is not accessible by any processes executing in any VOSE of the plurality of VOSEs.

10. (Currently Amended) The method of claim 8, wherein:

the first device node is exposed as "/dev/console" to processes executing in the first

VOSE: and

the second third device node is exposed as "/dev/console" to processes executing in the second VOSE.

11-13. (Canceled)

 (Currently Amended) [[The]] A machine-readable medium of claim 11, further comprising:

instructions for causing one or more processors to execute a first instance of a virtual console driver that is implemented by an operating system kernel instance;

instructions for causing one or more processors to establish a first device node within

a first virtual operating system environment (VOSE) of a plurality of VOSEs

controlled by the operating system kernel instance;

instructions for causing one or more processors to establish an association between the first device node and the first instance of the virtual console driver;

instructions for causing one or more processors to determine, in response to a first

process' request to write to the first device node, with which instance of the

virtual console driver the first device node is associated, wherein the first

process executes in the first VOSE:

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instructions for causing one or more processors to send data received from the first

process to the first instance of the virtual console driver in response to

determining that the first device node is associated with the first instance of
the virtual console driver;

instructions for causing one or more processors to establish a second device node within a global operating system environment (OSE) that comprises the plurality of VOSEs;

instructions for causing one or more processors to establish an association between

the second device node and the first instance of the virtual console driver;
instructions for causing one or more processors to determine, in response to a second

process' request to read from the second device node, with which instance of the virtual console driver the second device node is associated, wherein the second process executes in the global OSE; and

instructions for causing one or more processors to send, to the second process, in response to determining that the second device node is associated with the first instance of the virtual console driver, the data that was received from the first process and sent to the first instance of the virtual console driver.

 (Original) The machine-readable medium of claim 14, wherein the second device node is not accessible by any processes executing in any VOSE of the plurality of VOSES.

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16. (Original) The machine-readable medium of claim 14, further comprising:

instructions for causing one or more processors to receive, from the second process, a

command to execute an instance of the virtual console driver;

wherein the instructions for causing one or more processors to execute the first

instance of the virtual console driver comprise instructions for causing one or

more processors to execute the first instance of the virtual console driver in

response to receiving the command from the second process.

17. (Original) The machine-readable medium of claim 14, further comprising:

instructions for causing one or more processors to receive, from the second process, a

command to establish the first device node within the first VOSE;

wherein the instructions for causing one or more processors to establish the first

device node within the first VOSE comprise instructions for causing one or

more processors to establish the first device node within the first VOSE in

response to receiving the command from the second process.

18. (Currently Amended) The machine-readable medium of claim [[11]] 14, further

comprising:

instructions for causing one or more processors to execute a second instance of the

virtual console driver, wherein the second instance of the virtual console

driver is separate from the first instance of the virtual console driver;

instructions for causing one or more processors to establish a second third device

node within a second virtual operating system environment (VOSE) of the

Serial No. 10/767,003; Filed January 28, 2004

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plurality of VOSEs, wherein the second VOSE is separate from the first

VOSE;

instructions for causing one or more processors to establish an association between

the second third device node and the second instance of the virtual console

driver:

instructions for causing one or more processors to determine, in response to a second

process' request to write to the second third device node, with which instance

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of the virtual console driver the second third device node is associated.

wherein the second process executes in the second VOSE; and

instructions for causing one or more processors to send data received from the second

process to the second instance of the virtual console driver in response to

determining that the second third device node is associated with the second

instance of the virtual console driver.

19. (Currently Amended) The machine-readable medium of claim 18, wherein:

except for processes executing in the first VOSE, the first device node is not

accessible by any processes executing in any VOSE of the plurality of VOSEs;

and

except for processes executing in the second VOSE, the second third device node is

not accessible by any processes executing in any VOSE of the plurality of

VOSEs.

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20. (Currently Amended) The machine-readable medium of claim 18, wherein:

the first device node is exposed as "/dev/console" to processes executing in the first

VOSE; and

the second third device node is exposed as "/dev/console" to processes executing in

the second VOSE.

21-23. (Canceled)

(Currently Amended) [[The]] An apparatus of claim 21, further-comprising:

a mechanism for executing a first instance of a virtual console driver that is

implemented by an operating system kernel instance;

a mechanism for establishing a first device node within a first virtual operating system

environment (VOSE) of a plurality of VOSEs controlled by the operating

system kernel instance:

a mechanism for establishing an association between the first device node and the

first instance of the virtual console driver;

a mechanism for determining, in response to a first process' request to write to the

first device node, with which instance of the virtual console driver the first

device node is associated, wherein the first process executes in the first

VOSE;

 $\underline{a}\ \underline{mechanism}\ \underline{for}\ \underline{sending}\ \underline{data}\ \underline{received}\ \underline{from}\ \underline{the}\ \underline{first}\ \underline{process}\ \underline{to}\ \underline{the}\ \underline{first}\ \underline{instance}\ \underline{of}$

the virtual console driver in response to determining that the first device node

is associated with the first instance of the virtual console driver;

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a mechanism for establishing a second device node within a global operating system environment (OSE) that comprises the plurality of VOSEs;

a mechanism for establishing an association between the second device node and the

first instance of the virtual console driver;

a mechanism for determining, in response to a second process' request to read from
the second device node, with which instance of the virtual console driver the
second device node is associated, wherein the second process executes in the

global OSE; and

a mechanism for sending the data that was received from the first process and sent to
the first instance of the virtual console driver to the second process in response
to determining that the second device node is associated with the first instance
of the virtual console driver.

 (Original) The apparatus of claim 24, wherein the second device node is not accessible by any processes executing in any VOSE of the plurality of VOSES.

26. (Original) The apparatus of claim 24, further comprising:

a mechanism for receiving, from the second process, a command to execute an instance of the virtual console driver;

wherein the mechanism for executing the first instance of the virtual console driver comprises a mechanism for executing the first instance of the virtual console driver in response to receiving the command from the second process.

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27. (Original) The apparatus of claim 24, further comprising:

a mechanism for receiving, from the second process, a command to establish the first

device node within the first VOSE;

wherein the mechanism for establishing the first device node within the first VOSE

comprises a mechanism for establishing the first device node within the first

VOSE in response to receiving the command from the second process.

(Currently Amended) The apparatus of claim [[21]] 24, further comprising:

a mechanism for executing a second instance of the virtual console driver, wherein

the second instance of the virtual console driver is separate from the first

instance of the virtual console driver:

a mechanism for establishing a second third device node within a second virtual

operating system environment (VOSE) of the plurality of VOSEs, wherein the

second VOSE is separate from the first VOSE;

a mechanism for establishing an association between the $\frac{\mbox{second}}{\mbox{third}}$ device node and

the second instance of the virtual console driver:

a mechanism for determining, in response to a second process' request to write to the

second third device node, with which instance of the virtual console driver the

second third device node is associated, wherein the second process executes in

the second VOSE; and

a mechanism for sending data received from the second process to the second instance

of the virtual console driver in response to determining that the $\frac{1}{2}$

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device node is associated with the second instance of the virtual console driver.

29. (Currently Amended) The apparatus of claim 28, wherein:

except for processes executing in the first VOSE, the first device node is not accessible by any processes executing in any VOSE of the plurality of

VOSES; and

except for processes executing in the second VOSE, the second third device node is not accessible by any processes executing in any VOSE of the plurality of VOSES.

30. (Currently Amended) The apparatus of claim 28, wherein:

the first device node is exposed as "/dev/console" to processes executing in the first

VOSE: and

the second third device node is exposed as "/dev/console" to processes executing in the second VOSE.

- (New) The method of claim 4, wherein, except for processes executing in the first VOSE, the first device node is not accessible by any processes executing in any VOSE of the plurality of VOSEs.
- (New) The method of claim 4, wherein the first device node is exposed as "/dev/console" to processes executing in the first VOSE.

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33. (New) The machine-readable medium of claim 14, wherein, except for processes executing in the first VOSE, the first device node is not accessible by any processes executing in any VOSE of the plurality of VOSEs.

- (New) The machine-readable medium of claim 14, wherein the first device node is exposed as "/dev/console" to processes executing in the first VOSE.
- 35. (New) The apparatus of claim 24, wherein, except for processes executing in the first VOSE, the first device node is not accessible by any processes executing in any VOSE of the plurality of VOSES.
- 36. (New) The apparatus of claim 24, wherein the first device node is exposed as "/dev/console" to processes executing in the first VOSE.